

Form PTO-1449 (Rev. 8-88)	Attorney Docket No. ILL05-041-US	Serial No. 10/756,825
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	Applicant: Yi Lu	
	Filing Date: January 13, 2004	Group: 1645 1637




U.S. PATENT DOCUMENTS

Examiner Initials*		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
SP	Z1	5,459,040	10/1995	Hammock, et al.			
	Z2	5,472,881	12/1995	Beebe, et al.			
	Z3	5,580,967	12/1996	Joyce			
	Z4	5,807,718	9/1998	Joyce, et al.			
	Z5	5,989,813	11/1999	Gerdes			
	Z6	6,706,474	03/2004	Lu, et al.			
	Z7	6,361,944	03/2002	Mirkin, et al.			
	Z8	6,451,535	9/2002	Jenne, A. et al.			
	Z9	6,040,138	03/2000	Lockhart, et al.			
	Z10	5,593,835	01/1997	Rando, et al.			
	Z11	5,663,064	09/1997	Burke, et al.			
	Z12	6,110,462	08/2000	Barbas, et al.			
	Z13	6,630,306	10/2003	Breaker			
SP	Z14	2003/0215810	11/2003	Lu, et al.			


FOREIGN PATENT DOCUMENTS

Examiner Initials*		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
SP	Y1	WO 96/17086	6/1996	WO				
	Y2	WO 98/27104	6/1998	WO				
	Y3	WO 98/49346	11/1998	WO				
	Y4	WO 99/47704	9/1999	WO			X	
	Y5	WO 00/26226	5/2000	WO				
	Y6	WO 02/000006	1/2002	WO				
SP	Y7	WO 03/094838	11/2003	WO			X	

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SP	Y8	WO 00/58505	10/2000	WO				X
	Y9	GB 2,339,280	1/2000	Great Britain				
	Y10	EP 1,219,708	7/2002	EP				
	Y11	EP 121970	10/1984	EP				
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	Y13	WO 98/39484	09/1998	WO				
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	Y17	WO 03/095648	11/2003	WO				
	Y18	2004/081235	09/2004	WO				
	Y19	EP 1 312 674	05/2003	EP				
	Y20	WO 01/73123	10/2001	WO				
	Y21	WO 01/51665	07/2001	WO				
	Y22	WO 01/00876	01/2001	WO				
SP	Y23	WO 98/04740	02/1998	WO				

Examiner Initials*	OTHER ITEMS - NON PATENT LITERATURE DOCUMENTS	
	Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages	
SP	X1	Abstract of Joyce, G., "Design and catalytic activity of enzymic DNA molecules", (1998).
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	X5	Andreola, M-L., et al., "DNA aptamers selected against the HIV-1 RNase H display in vitro antiviral activity", Biochemistry, vol. 40, no. 34, pp. 10087-10094, (2001).
	X6	Bain, C. D., et al., "Modeling organic surfaces with self-assembled monolayers", Angew. Chem. Int. Ed. Engl., vol. 28, no. 4, pp. 506-512, (1989).
	X7	Bannon, D.I., et al., "Graphite furnace atomic absorption spectroscopic measurement of blood lead in matrix-matched standards", Clinical Chemistry, vol. 40, no. 9, pp. 1730-1734, (1994).
	X8	Been, M.D., et al., "Self-cleaving ribozymes of hepatitis delta virus RNA", Eur. J. Biochem., vol. 247, pp. 741-753, (1997).
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SP	X10	Biroccio, A., et al., "Selection of RNA aptamers that are specific and high-affinity ligands of the hepatitis C virus RNA-dependent RNA polymerase", Journal of Virology, vol. 76, no. 8, pp. 3688-3696, (2002).
	X11	Blake, D.A., et al., "Antibody-based sensors for heavy metal ions", Biosensors & Bioelectronics, vol. 16, pp. 799-809, (2001).
	X12	Blank, M., et al., "Systematic evolution of a DNA aptamer binding to rat brain tumor microvessels. Selective targeting of endothelial regulatory protein pigpen", Journal of Biological Chemistry, vol. 276, no. 19, pp. 16464-16468, (2001).
	X13	Bock, L.C., et al., "Selection of single-stranded DNA molecules that bind and inhibit human thrombin", Nature, vol. 355, pp. 564-566, (1992).
	X14	Bogden, J.D., et al., "Soil contamination from lead in paint chips", Bulletin of Environmental Contamination & Toxicology, vol. 14, no. 3, pp. 289-294, (1975).
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	X16	Bowins, R.J., et al., "Electrothermal isotope dilution inductively coupled plasma mass spectrometry method for the determination of sub-ng ml ⁻¹ levels of lead in human plasma", Journal of Analytical Atomic Spectrometry, vol. 9, pp. 1233-1236, (1994).
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	X26	Brown, A.K., et al., "A lead-dependent DNAzyme with a two-step mechanism", Biochemistry, vol. 42, no. 23, pp. 7152-7161, (2003).
	X27	Bruesehoff, P.J., et al., "Improving metal ion specificity during In Vitro selection of catalytic DNA", Combinatorial Chemistry & High Throughput Screening, vol. 5, pp. 327-335, (2002).
	X28	Bruno, J.G., et al., "In vitro selection of DNA aptamers to anthrax spores with electrochemiluminescence detection", Biosensors & Bioelectronics, vol. 14, pp. 457-464, (1999).
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	X30	Brust, M., et al., "Novel gold-dithiol nano-networks with non-metallic electronic properties", Advanced Materials, vol. 7, no. 9, pp. 795-797, (1995)
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SP	X34	Burke, D.H., et al., "A Novel Acidophilic RNA Motif That Recognizes Coenzyme A", Biochemistry, vol. 37, no. 13, pp. 4653-4663, (1998).
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	X36	Burke, D.H., et al., "RNA aptamers to the peptidyl transferase inhibitor chloramphenicol", Chemistry & Biology, vol. 4, no. 11, pp. 833-843, (1997).
	X37	Burmeister, J., et al., "Cofactor-assisted self-cleavage in DNA libraries with a 3'-5'-phosphoramidate bond", Angew. Chem. Int. Ed. Engl., vol. 36, no. 12, pp. 1321-1324, (1997).
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	X39	Cadwell, R.C., et al., "Mutagenic PCR", PCR Methods and Applications, vol. 3, pp. S136-S140, (1994).
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	X44	Carmi, N., et al., "Cleaving DNA with DNA", Proc. Natl. Acad. Sci. USA, vol. 95, pp. 2233-2237, (1998).
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	X55	Chinnapen, D.J.F., et al., "Hemin-stimulated docking of cytochrome c to a hemin-DNA aptamer complex", Biochemistry, vol. 41, no. 16, pp. 5202-5212, (2002).
	X56	Ciesiolka, J., et al., "Selection of an RNA domain that binds Zn ²⁺ ", RNA, vol. 1, pp. 538-550, (1995).
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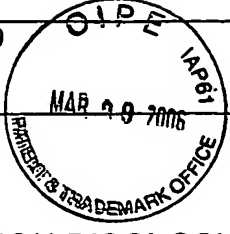
SP	X58	Conaty, J., et al., "Selected classes of minimised hammerhead ribozyme have very high cleavage rates at low Mg ²⁺ concentration", Nucleic Acids Research, vol. 27, no. 11, pp. 2400-2407, (1999).
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	X62	Cuenoud, B., et al., "A DNA metalloenzyme with DNA ligase activity", Nature, vol. 375, pp. 611-614, (1995).
	X63	Czarnik, A.W., "Desperately seeking sensors", Chemistry & Biology, vol. 2, no. 7, pp. 423-428, (1995).
	X64	Dai, X., et al., "Cleavage of an amide bond by a ribozyme", Science, New Series, vol. 267, issue 5195, pp. 237-240, (1995).
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	X90	Frank, D.N., et al., "In vitro selection for altered divalent metal specificity in the RNase P RNA", Proc. Natl. Acad. Sci. USA, vol. 94, pp. 14355-14360, (1997).
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	X104	Harada, K., et al., "Identification of two novel arginine binding DNAs", The EMBO Journal, vol. 14, no. 23, pp. 5798-5811, (1995).
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	X110	Ho, H-A., et al., "Optical sensors based on hybrid aptamer/conjugated polymer complexes", J. Am. Chem. Soc., vol 126, no. 5, pp. 1384-1387, (2004).
	X111	Hock, B., "Antibodies for immunosensors, A review", Analytica Chimica Acta, vol. 347, pp. 177-186, (1997).
	X112	Hofmann, H.P., et al., "Ni ²⁺ -binding RNA motifs with an asymmetric purine-rich internal loop and a G-A base pair", RNA, vol. 3, pp. 1289-1300, (1997).
	X113	Holeman, L.A., et al., "Isolation and characterization of fluorophore-binding RNA aptamers", Folding & Design, vol. 3, pp. 423-431, (1998).
	X114	Hoogstraten, C.G., et al., "NMR solution structure of the lead-dependent ribozyme: Evidence for dynamics in RNA catalysis", J. Mol. Biol., vol. 284, pp. 337-350, (1998)
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SP	Y24	WO 01/23548	04/2001	WO				

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